

#4084 Store at 4°C

# DRAQ5®

- Small 50 µl
- Large 200 µl



**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com

**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com

**Web** ■ www.cellsignal.com

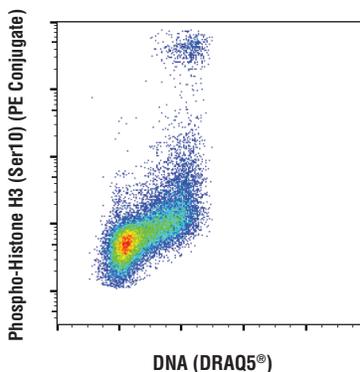
**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Species Cross-Reactivity
IF-F, IF-IC, IF-P, F	All

**Background:** DRAQ5®, 1, 5-bis[[2-(di-methylamino)ethyl]amino]-4, 8-dihydroxyanthracene-9,10-dione, is a cell permeable far-red fluorescent DNA dye that can be used in live or fixed cells. This dye can be used in combination with GFP or FITC labels. DRAQ5® has been used to examine cellular DNA in flow cytometry and fluorescent microscopy applications (1-3).

**Background References:**

- (1) Smith, P.J. et al. (2000) *Cytometry* 40, 280–91.
- (2) Wiltshire, M. et al. (2000) *Cytometry* 39, 217–23.
- (3) Smith, P.J. et al. (1999) *J Immunol Methods* 229, 131–9.



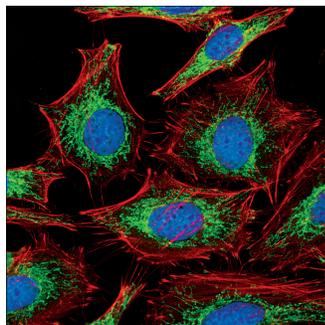
**Storage:** Store at 4°C protected from light.

**Directions for Use:** Please follow CST's recommended IF and Flow protocols. For both applications, following secondary detection:

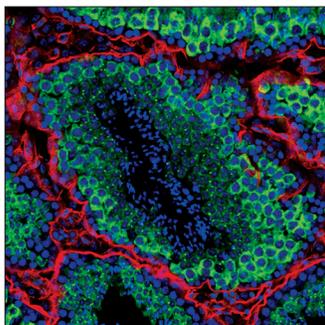
**Flow Cytometry:** Centrifuge cells and resuspend in 0.5 ml DRAQ5® diluted 1:500 (10 µM) in PBS or Antibody Dilution Buffer. Incubate for 5 min at room temperature in the dark before analyzing cells on flow cytometer.

**Immunofluorescence:** Rinse samples twice in PBS for five minutes each. Dilute DRAQ5® 1:1000 (5 µM) in PBS and incubate for 5 minutes at room temperature in the dark. Rinse samples once in PBS, coat coverslips with anti-fade reagent and examine immediately using appropriate excitation wavelength.

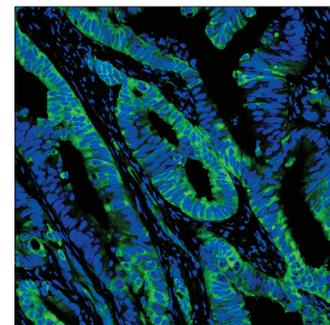
◀ *Flow cytometric analysis of Jurkat cells using Phospho-Histone H3 (Ser10) (D7N8E) XP® Rabbit mAb (PE Conjugate) #29237 versus DRAQ5® (DNA content).*



*Confocal immunofluorescent analysis of HeLa cells using COX IV (3E11) Rabbit mAb #4850 (green). Actin filaments have been labeled with DY-554 phalloidin (red). Blue pseudocolor = DRAQ5® (fluorescent DNA dye).*

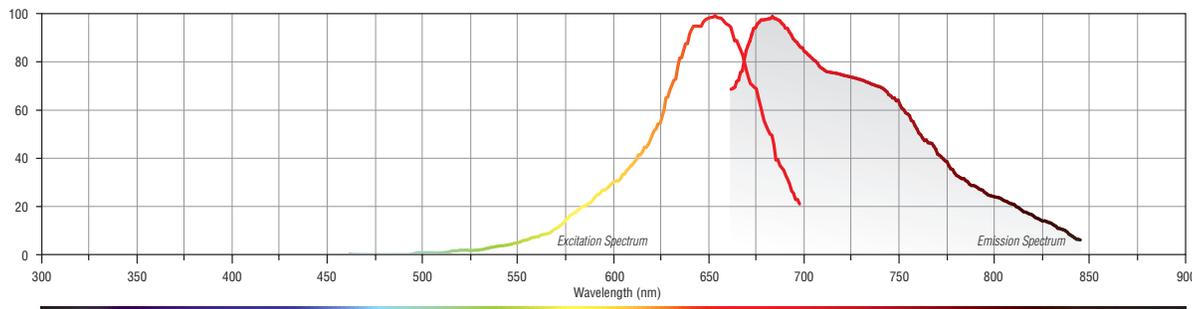


*Confocal immunofluorescent analysis of mouse testis using Miwi (G82) Antibody #2079 (green) and Pan-Keratin (C11) Mouse mAb #4545 (red). Blue pseudocolor = DRAQ5® (fluorescent DNA dye).*



*Confocal immunofluorescent analysis of paraffin-embedded human colon adenocarcinoma using Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) Rabbit mAb #4858 (green). Blue pseudocolor = DRAQ5® (fluorescent DNA dye).*

**DRAQ5® Excitation/Emission Spectra**



◀ *Absorption and fluorescence emission spectra of DRAQ5® in aqueous solution.*

DRAQ5® is a registered trademark of Biostatus Limited.

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.